

WHAT IS CLAIMED IS:

1. A communication apparatus wherein transmission data containing a first signal and a second signal different from said first signal is transmitted, comprising:

5 a transmission power controller for controlling at least one of transmission power of said first signal and transmission power of said second signal in such a manner that said transmission power of the first signal is made substantially coincident with said transmission power of the
10 second signal; and

a transmitter for transmitting said transmission data containing said first signal and said second signal in the transmission power controlled by said transmission power controller.

15 2. A communication apparatus as claimed in claim 1 wherein:

said transmission power controller includes a multiplier for multiplying an amplitude of said first signal by a predetermined coefficient to thereby control the
20 transmission power of said first signal.

3. A communication apparatus as claimed in claim 2 wherein:

said first signal contains a pilot signal.

4. A communication apparatus as claimed in claim 1,
25 further comprising:

interleave means for subdividing said transmission data into a plurality of data in a preselected data unit, and for rearranging a sequence of said subdivided data.

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5. A communication apparatus as claimed in claim 3 wherein:

said first signal contains a transmission power control signal used to instruct transmission power of another communication apparatus under communication with said communication apparatus.

6. A spread multi-code communication apparatus for transmitting a plurality of transmission data by spreading said plurality of transmission data by employing different codes from each other, comprising:

a plurality of spreading units for spreading said plurality of transmission data by employing the different codes from each other to thereby output spread signals;

a synthesizing unit for synthesizing a plurality of spread signals outputted from the respective spreading units with each other to thereby output a synthesized signal;

a coefficient output unit for outputting a predetermined coefficient;

a multiplying unit for multiplying the synthesized signal outputted from said synthesizing unit by said predetermined coefficient; and

a transmitting unit for transmitting a signal outputted from said multiplying unit.

7. A spread multi-code communication apparatus as claimed in claim 6 wherein:

each of said plural transmission data contains a pilot signal and a data signal.

8. A spread multi-code communication apparatus as

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said plurality of transmission data are produced by subdividing a series of transmission data into plural transmission data.

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each other as to the respective transmission data, and all of the spread transmission data are added to each other, whereby the added transmission data is transmitted, comprising:

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5 a transmission power control unit for controlling transmission power of said transmission data in such a manner that transmission power of said pilot signal is made substantially equal to transmission power of said data signal; and

10 a transmission unit for transmitting said transmission data by the transmission power controlled by said transmission power control unit.

13. A CDMA communication apparatus as claimed in claim 12 wherein:

15 said transmission power control unit includes an adjusting unit for adjusting at least one of said transmission power of said pilot signal and said transmission power of said data signal.

14. A CDMA communication apparatus as claimed in claim 13 wherein:

20 said adjusting unit attenuates the transmission power of said pilot signal so as to make the transmission power of said pilot signal substantially coincident with the transmission power of said data signal.

25 Sub AT 15. A CDMA communication apparatus as claimed in claim 14 wherein:

Cont. said adjusting unit multiplies a value equal to the transmission power of said pilot signal by a predetermined coefficient so as to attenuate said transmission power of

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this pilot signal.

16. A CDMA communication apparatus as claimed in claim 15 wherein:

5 said adjusting unit sets a value of said coefficient in accordance with the number of said plural transmission data.

17. A CDMA communication apparatus as claimed in claim 16 wherein:

10 in the case that said plurality of transmission data are "N" pieces of transmission data in which the "N" indicates an integer, said adjusting unit sets the value of said coefficient value to $1/\sqrt{N}$.

18. A CDMA communication apparatus as claimed in claim 12 wherein:

15 a spreading code for spreading at least one data signal among said second spreading codes is made coincident with said first spreading code for spreading the pilot signal.

19. A communication method wherein transmission data containing a first signal and a second signal is transmitted, comprising the steps of:

20 controlling at least one of transmission power of said first signal and transmission power of said second signal in such a manner that said transmission power of the first signal is made substantially coincident with said transmission power of the second signal; and

25 transmitting said transmission data containing said first signal and said second signal in the controlled transmission power.

20. A communication method as claimed in claim 19

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wherein:

an amplitude of said first signal is multiplied by a predetermined coefficient to thereby control the transmission power of said first signal.

21. A spread multi-code communication method for transmitting a plurality of transmission data by spreading said plurality of transmission data by employing different codes from each other, comprising the steps of:

spreading said plurality of transmission data by
10 employing the different codes from each other to thereby
output spread signals;
synthesizing said plurality of spread signals with each
other to thereby output a synthesized signal;
outputting a predetermined coefficient;
15 multiplying the synthesized signal by said
predetermined coefficient; and
transmitting a signal outputted from said multiplying
unit.

22. A spread multi-code communication method as
20 claimed in claim 21 wherein:

each of said plural transmission data contains a pilot
signal and a data signal.

23. A spread multi-code communication method as
claimed in claim 21 wherein:

25 the value of said coefficient is set in such a manner
that transmission power of said pilot signal is made
substantially equal to transmission power of said data signal.

24. A spread multi-code communication method as

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the transmission power of said pilot signal is attenuated so as to make the transmission power of said pilot

signal substantially coincident with the transmission power of said data signal.

28. A CDMA communication method as claimed in claim 27 wherein:

5 a value equal to the transmission power of said pilot signal is multiplied by a predetermined coefficient so as to attenuate said transmission power of this pilot signal.

29. A CDMA communication method as claimed in claim 28 wherein:

10 a value of said coefficient is set in accordance with the number of said plural transmission data.

30. A CDMA communication method as claimed in claim 29 wherein:

15 in the case that said plurality of transmission data are "N" pieces of transmission data in which the "N" indicates an integer, the value of said coefficient value to $1/\sqrt{N}$ is set.

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